

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/052,002	01/17/2002	John A. Reeve	MAC - 199	9163	
8131 MCKELLAR I	7590 05/16/2007 P LAW. PLLC	•	EXAM	INER	
784 SOUTH PO	OSEYVILLE ROAD	EYVILLE ROAD MARKOFF, ALEXANDER			
MIDLAND, M	1 48640		ART UNIT	PAPER NUMBER	
			1746		
			MAIL DATE	DELIVERY MODE	
			05/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)
		10/052,002	REEVE, JOHN A.
	Office Action Summary	Examiner	Art Unit
		Alexander Markoff	1746
Period f	The MAILING DATE of this communication ap or Reply	ppears on the cover sheet wit	h the correspondence address
VVHIO - Exte afte - If NO - Fail Any	HORTENED STATUTORY PERIOD FOR REPCHEVER IS LONGER, FROM THE MAILING I ensions of time may be available under the provisions of 37 CFR 1 r SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mail ned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re d will apply and will expire SIX (6) MONT tte, cause the application to become ABA	ATION. ply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status			
	• —	is action is non-final. ance except for formal matte	•
Disposit	tion of Claims		
5)□ 6)⊠ 7)□	Claim(s) 1-29 is/are pending in the applicatio 4a) Of the above claim(s) 3-6, 9-12, 14, 15, 1 Claim(s) is/are allowed. Claim(s) 1,2,7,8,13,16 and 18 is/are rejected Claim(s) is/are objected to. Claim(s) are subject to restriction and/	<u>7 and 10-29</u> is/are withdraw	n from consideration.
Applicat	ion Papers		
10)	The specification is objected to by the Examina The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examina to the specific and sheet are specifically as a specific and specifically as a specific and specific and specifically as a specific and s	ccepted or b) objected to be e drawing(s) be held in abeyand ction is required if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
	under 35 U.S.C. § 119		
12)□ a)	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a lis	nts have been received. nts have been received in Ap ority documents have been i au (PCT Rule 17.2(a)).	pplication No received in this National Stage
2) 🔲 Notic 3) 🔲 Infori	et(s) See of References Cited (PTO-892) See of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) Er No(s)/Mail Date		/Mail Date ormal Patent Application

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Application/Control Number: 10/052,002 Page 2

Art Unit: 1746

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of the specific specie of claim 18 in the reply filed on 2/26/07 is acknowledged.

2. Claims 3-6, 9-12, 14, 15, 17 and 10-29 withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventions and species, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 2/26/07.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1, 2, 7, 8, 13, 16 and 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are indefinite because it is not clear with what the silicon containing material should be capable of reacting.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/052,002 Page 3

Art Unit: 1746

6. The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. Claims 1, 2, 7, 8, 13, 16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over any one of Ray (US Patent NO 6,586,109) or Richardson (US Patent No 4,529,378) in combination with Abbot et al (US 3,860,709), Endy (US Patent No 4,282,366) and Isquith et al (US Patent No 3,730,701).

Ray and Richardson both teach that treatment wood to provide fire retardant properties was conventional in the art.

Abbot et al, Endy and Isquith et al teach that claimed alkoxysilane was a known antimicrobial agent. Endy and Isquith et al teach that it was known to apply this agent to cellulose materials such wood.

It would have been obvious to an ordinary artisan at the time the invention was made to apply both known treatment agents to provide flame retardant and antimicrobial properties to wood with reasonable expectation of adequate results.

Response to Arguments

8. Applicant's arguments filed with respect to the rejection made under 35 USC 112(2) have been fully considered but they are not persuasive for the reasons of the record. It is noted that the applicants have not provided separate reasoning to rebut the

Art Unit: 1746

referenced rejection. The applicants relied on the arguments filed with respect to the

rejection made under 35 USC 112(1). The applicants state that the silicon containing

material can react to form polymeric network or can react with functional surface.

However, the claims do not describe such. Moreover, the specification fails to teach

such. The applicants' arguments are not persuasive because the claims do not clearly

recite what is claimed.

New rejection under 35 USC 103 is added to address the specifically elected

species.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Markoff whose telephone number is 571-272-1304. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Barr can be reached on 571-272-1414. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1746

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alexander Markoff Primary Examiner Art Unit 1746

AM

ALEXANDER MARKOFF PRIMARY EXAMINER